# LUXURIOUS LISTENING

BY TANNOY®

A BROCHURE OF OUR
HIGH FIDELITY CABINETS

# THE Guy R. Fountain "AUTOGRAPH"

# EXPANDING SOURCE LOUDSPEAKER SYSTEM

## DESIGNED FOR THE 15″ MONITOR GOLD DUAL CONCENTRIC

While Tannoy Monitor Gold Dual Concentrics work well in either suitably designed bass reflex or infinite baffle type enclosures, it has long been felt that the creation of a sound source, the size of which varied with frequency, would bring a big improvement to the realism which could be obtained with music systems. To this end the 'Guy R. Fountain Autograph' enclosure has been designed, so that the inherent qualities of the Monitor Gold 15″ Dual Concentric loudspeaker are exploited to their fullest.

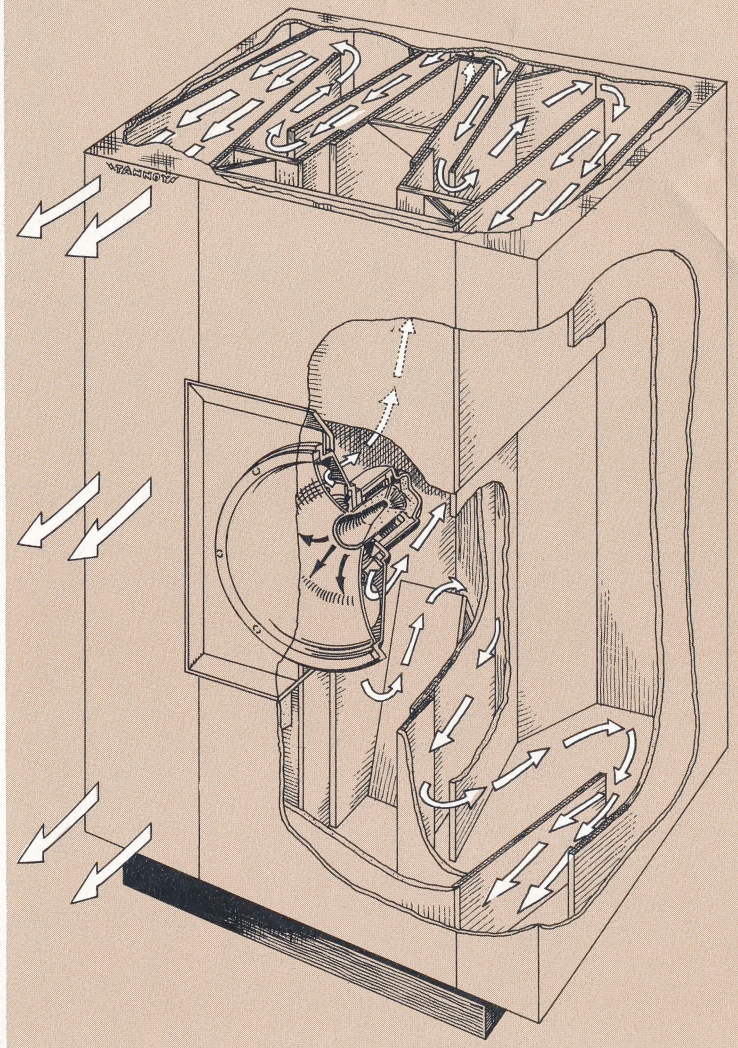
This enclosure provides proper horn loading for the bass unit over its entire working range and does not have the disadvantage of loading it only for the lower end of the bass spectrum as is the case with many folded horns. The unit is rear loaded from 350 Hz down to 30 Hz. Above 350 Hz very little sound from the rear of the diaphragm appears at the mouth of the horn due to the manner in which it is folded. Between 350 Hz and the electrical crossover point of 1,000 Hz a new acoustic coupling device gives much improved front radiation.

The correct phase relationships between the output from the rear and the front horns are provided for by carefully designed path length differences. Above 1,000 Hz the horn loaded high frequency unit, which forms an integral part of the Dual Concentric loudspeaker, takes over, serving to preserve the impression of location necessary to ensure realistic stereo reproduction.

It will be realized, therefore, that the rear horn, the mouth of which takes the form of two longitudinal slots situated either side of the cabinet, radiates all frequencies from 350 Hz downwards, while from 350 Hz upwards the much smaller frontal loading takes over. Above 1,000 Hz the horn loading is completed by the non-directional high frequency unit of the Tannoy Dual Concentric loudspeaker.

The use of this form of enclosure, apart from making the electro-acoustical conversion efficiency much higher, improves the transient response of the low frequency unit considerably, and also results in much improved presence. It has the advantage that solo instruments and solo vocal music do not assume unnaturally large proportions while sounds which, by their very nature are 'big', do benefit from the large source size available at lower frequencies.

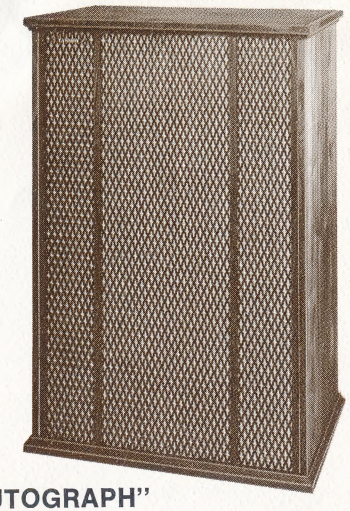
Over the years many systems have been designed and manufactured by Tannoy, but in this expanding sound source has been created a system of such excellence that our Chairman and Founder, Guy R. Fountain, has given it his own autograph, by which it shall be known as the ultimate in music reproduction: a system by which others are judged.




*Cutaway showing horn development of Guy R. Fountain "Autograph"*

THE TRADEMARK "TANNOY"® ON THE ENCLOSURE IS YOUR SIGN OF QUALITY— INSIST UPON IT

"STANDARD AUTOGRAPH"

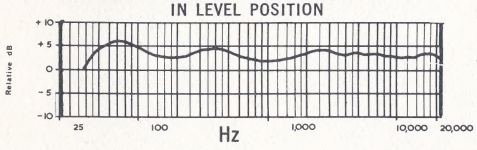


"TUDOR AUTOGRAPH"

The AUTOGRAPH has been designed with the professional user in mind who demands reproduction in its finest form, affording the breadth and depth of the largest symphony orchestra but at the same time having the ability to reproduce the soloist with the intimacy so necessary for lifelike performance; this enclosure, with its complicated but acoustically corrected horn development throughout the spectrum makes this possible. It embodies all the well-known advantages of horn-loading: excellent bass and transient response, but none of the spacial distribution defects associated with conventional horns or multi-speaker systems. This is the ultimate combination of speaker and enclosure, and although it will have its greatest application in studios and for professional uses because of its high efficiency and power handling capacity, it nevertheless loses none of its inherent qualities when played at the lowest volume in the living room.

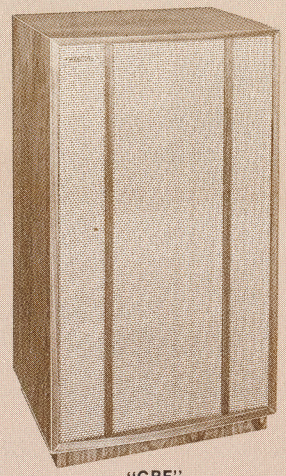
There are two models available: the Standard Autograph, which is of modern styling; and the "Tudor" Autograph which, with its molded top and base, and beautifully ornamented grillework, is a majestically styled enclosure designed to complement the most gracious living room.

DYNAMIC BALANCE CONTROL AND ROLL OFF
IN LEVEL POSITION




**SPECIFICATIONS**

| | |
|---|---|
| Frequency Response | 30-20,000 Hz |
| Power Handling Capacity | 50-Watts |
| Efficiency | 10% |
| Bass Horn Development | Effective loading down to 30 Hz |
| Overall Size | "Standard"—Height 52", Depth 22", Width 32"<br>"TUDOR"—Height 50¾", Depth 22¾", Width 33¾" |
| Finish | Oiled Walnut |
| Impedance | 8 Ohms |

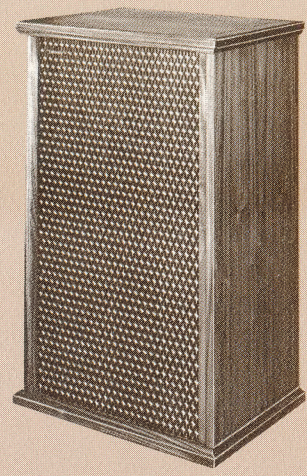


"GRF"

THE

G.R.F.

HORN LOADED SYSTEM



"WINDSOR GRF"

Guy R. Fountain has given his initials to a loudspeaker system which, since its introduction, has been acclaimed by musicians throughout the country for its beauty of reproduction.

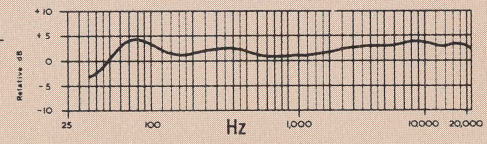
The 15" Monitor Gold Dual Concentric loudspeaker forms the heart of this system, while the GRF enclosure provides the expanding sound source. The effect of this as has been described previously, is that the wave front, varying in frequency, gives an outstanding illusion of realism to both solo and orchestral music. In addition, the system has all of the well-known advantages of horn loading: rich sonority of bass, inherently non-resonant, excellent transient response, plus the sweep of the 15" Monitor's high frequencies, smooth and non-directional.

The low frequency diaphragm of the 15" Dual Concentric is rear horn loaded below 350 Hz, at which point the acoustical crossover takes place and frontal radiation is obtained from this frequency up to 1,000 Hz; above this the non-directional horn loaded high frequency unit, which forms an integral part of the Dual Concentric, takes over.

As a result of this form of horn loading, the breadth and dynamic range of a large orchestra can be fully enjoyed; because of its excellent instrument definition realistic presence is provided to the satisfaction of the most fastidious listener. And of course the solo instrument, or voice, retains its delightful intimacy.

The "GRF" has been developed because of the increasing demand for a system with the qualities of the 'Autograph' but in a smaller physical size. It is, indeed, a fitting complement to the 15" Monitor Gold Dual Concentric loudspeaker. Two models are available: the "GRF", in modern styling; and the "Windsor GRF", a handsomely styled cabinet complete with molded top and base, and decorator grillework.

DYNAMIC BALANCE CONTROL
AND ROLL OFF
IN LEVEL POSITION




**SPECIFICATIONS**

| | |
|---|---|
| Frequency Response | 35-20,000 Hz |
| Power Handling Capacity | 50-Watts |
| Efficiency | 8% |
| Bass Horn Development | Effective loading down to 35 Hz |
| Overall Size | "GRF"—Height 42", Depth 17", Width 23¾"<br>"Windsor GRF"—Height 41", Depth 18½", Width 25" |
| Finish | Oiled Walnut |

## THE 'LANCASTER' ENCLOSURE

The Lancaster enclosure has been designed for the 15″ Tannoy Monitor Gold Dual Concentric loudspeaker for stereophonic application. It is solidly constructed, and embodies the bass reflex principle using a throated port providing maximum performance for minimum physical size.

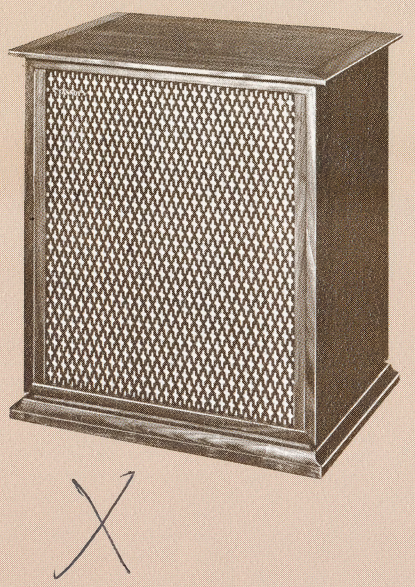
The complete system with the 15″ Dual Concentric provides excellent frequency response throughout the audio spectrum ,with clean, sharp, transients, and an overall integrated sound source, particularly desirable in stereophonic reproduction.

The eye-catching grillework of this enclosure is only part of a system which is superbly balanced both in appearance and sound reproduction.

It is also available as a bass reflex with a modified baffle for use with the 12″ Monitor Gold Dual Concentric loudspeaker; when so housed this speaker is operating under ideal conditions.

**SPECIFICATIONS**

| | |
|---|---|
| Overall Size | Height: 29″<br>Width: 26″<br>Depth: 19⅜″ |
| Finish | Oiled Walnut |



## THE 'STUART' ENCLOSURE

This is a charming enclosure directed towards the lowboy styling of today's decor. It has been designed so that it can be used with either the Tannoy 12″ Monitor Gold Dual Concentric loudspeaker or the 10″ unit.

The cabinet is a bass reflex, using the throated port principle and ensures a wide frequency response with clean, solid, non-resonant bass. It has the ability to function at low volume whilst maintaining the unparalleled presence so desirable for good stereophonic reproduction, yet it can still deliver the full strength and power of the large symphonic orchestra when called upon to do so.

The Stuart: a cabinet of most pleasing harmony, both musically and visually.

**SPECIFICATIONS**

| | |
|---|---|
| Overall Size | Height: 25½″<br>Width: 24⅜″<br>Depth: 16⅞″ |
| Finish | Oiled Walnut |

## THE 'BELVEDERE' ENCLOSURE

The BELVEDERE is a solidly constructed enclosure embodying the bass reflex principle with a throated port; it provides maximum performance for minimum physical size and cost. This cabinet is designed for use with the 15″ Monitor Gold Dual Concentric loudspeaker, ensuring excellent frequency response, crisp transients, and the overall integrated sound source particularly desirable in stereophonic reproduction.

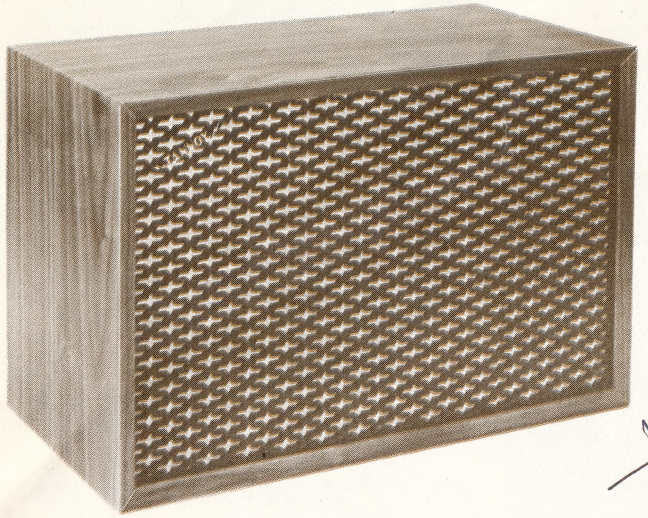
It is also available as a bass reflex with a modified baffle for use with the 12″ Monitor Gold Dual Concentric loudspeaker; when so housed this speaker is operating under ideal conditions.

**SPECIFICATIONS**

| | |
|---|---|
| Overall Size | Height: 33½″<br>Width: 23¾″<br>Depth: 16″ |
| Finish | Oiled Walnut |

THE TRADEMARK "TANNOY"® ON THE ENCLOSURE IS YOUR SIGN OF QUALITY—INSIST UPON IT

# THE "MALLORCAN" SYSTEM



*Choice of the connoisseur*

This bookshelf system has been designed to provide the ultimate in high fidelity sound reproduction in a compact and decorator-styled cabinet. Its frequency response is from 35 Hz to 20,000 Hz, achieved by a 12″ Monitor Gold Dual Concentric loudspeaker embodying a horn-loaded high frequency tweeter and a specially designed 12″ woofer; the crossover frequency is 1,000 Hz. The Monitor Gold series' dynamic balance and roll-off control in included to allow adjustment to the high frequency response if required: full details of this are given in the Monitor Gold brochure. To complement the speaker, the enclosure incorporates a tuned Circlovent port to ensure maximum performance.

The Mallorcan system is capable of being driven by amplifiers having as little as 15-watts per channel; it is therefore in the high efficiency speaker category. Its power handling capacity is considerable and, although it will operate at high volume without fatigue, it can be played at the lowest level without losing its overall tonal quality. The system has been designed to encompass all the fine qualities of the Monitor Gold Dual Concentric range of speakers.

Truly a system for the connoisseur who requires the performance and "open" sound usually associated with larger speaker systems but has limited space available, the Mallorcan with its dynamic transients, wide frequency range, excellent instrument definition, and overall superior quality, offers sheer listening pleasure.

**SPECIFICATIONS**

Cabinet: Finished on all sides for horizontal or vertical placement, in oiled walnut. A pleasing appearance is achieved by a light-colored grille cloth, enhancing in contrast the dark wooden grille.

Size .....23½″ x 14⅝″ x 11½″ deep.

Speaker: 12″ Monitor Gold Dual Concentric, with modified low frequency diaphragm: see Tannoy "Monitor Gold" brochure for overall performance and complete technical specification. Impedance 8 ohms.

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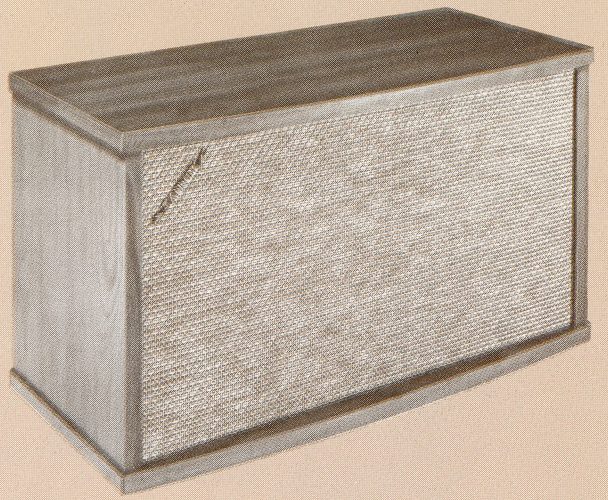

# THE "CADET" SYSTEM

The Cadet has been designed to work in conjunction with the Tannoy 10″ Monitor Gold Concentric, for bookshelf applications. Having a capacity of approximately 1½ cubic feet, it is solidly constructed and acoustically engineered to provide adequate loading for this unit. Despite its small physical size, it is capable of producing a large sound source when used for stereophonic reproduction.

This system has a wide frequency response, excellent transients, and a clean bass. As is the case of all Tannoy systems, it is efficient and can be driven with as little as 15-Watts per channel. The cabinet is finished on all four sides so that it may be used either horizontally or vertically.

**SPECIFICATIONS**

| | |
|---|---|
| Size | Width: 23¾″<br>Height: 13½″<br>Depth: 11″ |
| Finish | Oiled Walnut |

# THE TANNOY® ORGANISATION

## AN ACKNOWLEDGED LEADER IN SOUND FOR OVER 44 YEARS

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SUNDAYS 12 P.M.—5 P.M.
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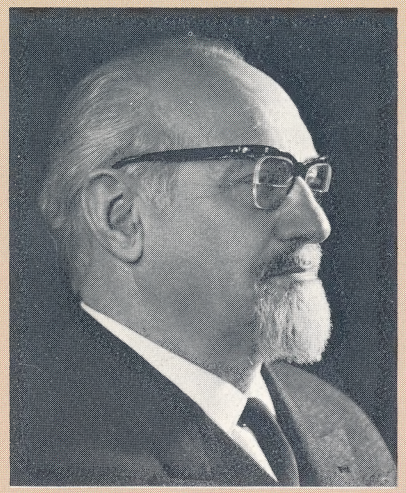

GUY R. FOUNTAIN
Founder and Chairman of TANNOY

The present Chairman and Governing Director, Guy R. Fountain, who was one of the early pioneers of radio 'from the mains', originally founded the Tannoy group of companies in 1926. He designed, patented, and produced a series of ingenious radio electrical devices, including high tension and low tension chargers and 'eliminators'. He also devised a patent electrolytic rectifier using a Tantalum Alloy and from the combination of these two words the present world-renowned trademark 'TANNOY' was derived.

The availability of these mains operated power sources, together with the rapid advancement in tube technique, led to the production of some of the earliest high quality power amplifiers designed specifically for public address purposes.

By 1928 the already wide range of equipment was in increasing demand by the promoters of many national events in the spheres of sport and entertainment, and another five years saw TANNOY established as the largest organization in Great Britain specializing solely in the design and manufacture of complete public address equipment. A fully equipped laboratory had come into existence, possessing unique, specially designed measuring apparatus, and it was not unnatural that much equipment of this type was in demand by other manufacturers. It is interesting to note that the first and only officially acknowledged measuring equipment available in Great Britain became known as the TANNOY N.P.L. Noise-meter, which was developed in close collaboration with the National Physical Laboratory, measuring in phons, and capable of measuring sound with an earlike response. It was the only one of its type available with an N.P.L. Certificate of Accuracy.

In 1937, a public address system was installed at Hendon Aerodrome for the British Air Pageant that year. The requirements were carefully investigated on a scientific basis, using the newly available TANNOY Noise-meter, and it was this installation which opened the eyes of the authorities to the far reaching possibilities of loudspeaker systems for use on aerodromes during times of national emergency.

By this time also, the value of public address systems was appreciated in the world of music and drama. An outstanding example of an installation where fidelity of performance was of paramount importance was the pre-war production of 'Hiawatha', 'Faust', etc., at the Royal Albert Hall.

Among the many diverse activities of the company were the installations of a large number of radio relay stations throughout South Wales, public address equipment for Bertram Mills Circus, and specialized equipment for the Royal Train, shunting yards, railway stations, etc.

The outbreak of war in 1939 made fresh demands upon the TANNOY research and manufacturing organization and during the six years that followed, TANNOY developed and produced many items of proprietary equipment designed solely for use by various branches of the forces. On airfields and gun sites, in tanks and submarines, the name TANNOY became synonymous with reliable communication. Over 600 complete airfield communication systems were designed, installed, and maintained for the Royal Air Force alone.

With the end of the war in Europe, TANNOY was called upon to provide the first public address system ever used at Buckingham Palace. Similar equipment was provided to mark the end of the Japanese war and, of course, for the combined Victory celebrations some months later. With the return of peace, TANNOY's efforts were again directed to the provision of equipment for all spheres of activity. Some of the first and largest installations were supplied to Butlin's Holiday Camps, which were built and completed in record time. Many Greyhound Racing Association Stadia, including White City, which holds 80,000 spectators, were equipped, and many leading industrial organizations were supplied with equipment for staff location, time signalling, and production control.

A problem that called for the introduction of entirely new techniques and many unique items of equipment was the sound reinforcement system for installation in the new House of Commons Chamber in London, which was reconstructed on the site of the original building destroyed in 1941. Subsequently, a similar installation found its place in the re-decorated House of Lords, and such was the interest aroused in this method of sound reinforcement, ideally suited to the procedure of debate, that similar systems were installed in many other Parliaments, notably the House of Commons, Ottawa, the Legislative Assemblies in Regina and Edmonton in Canada, the House of the People, New Delhi, and the Legislative Assembly, Travancore-Cochin, in India.

The many international organizations coming into existence raised new problems for the TANNOY laboratories. A six language simultaneous interpretation system was installed in the Palais de Chaillot for the 1951 session of U.N.O. and similar facilities incorporating TANNOY equipment are found in the permanent headquarters of U.N.O. in New York, while debating facilities combined with interpretation are installed in Church House, London, making this the most comprehensive installation of its kind in Europe.

Since then, TANNOY has developed the technique of radio frequency loop equipment for multi-channel translation requirements, and had the privilege of supplying the House of Commons, Canada, with a six language debating system using this principle.

In more recent years, with the ever-increasing expansion of industry, many specialized types of equipment have been developed and these are now forming integral parts of many complex production processes. Notable instances of this have been the development of 'intrinsically safe' systems for use in the chemical and petroleum industries, and special purpose high power systems for use in very high noise levels or over scattered outdoor plants.

One of the most recent facets of the TANNOY program has been the production of airborne loudspeaker equipment capable of broadcasting direct and recorded messages over enormous areas in a relatively short space of time, and although this is indeed a new development its potentialities are vast.

The long and varied experience of supplying specialized marine equipment has now developed into a major facet with the advent of TANNOY high powered fog warning systems. These have been supplied to a number of Trinity House lighthouses, one of the most important being a 7,000-Watt system at Dungeness. In addition, others have been provided for the Department of Transport in Canada, and so on. Numerous gas and oil drilling wells in the North Sea and elsewhere have also been equipped with fog-warning systems.

Since early 1935 TANNOY comprehensive ship communication systems have been in continuous demand; this wide field encompasses ocean going liners, naval vessels of all kinds, cruisers, submarines, oil-tankers, etc. All this vast experience is culminated in the most comprehensive system of all, aboard the new Cunard liner, Queen Elizabeth II, which we were privileged to equip. The 4,250-Watts of multi-channel transistorized amplifier equipment and 1,800 loudspeakers provides for the total internal communications on the vessel for all purposes, meeting all the standards of reliability required by shipping and navigational authorities. The many requirements covered include general emergency passenger communication system, boat order and crew inter-communication, machinery space inter-communication and general engineers' alarm, electronic "At-Anchor" fog warning, six-channel passenger cabin entertainment, individual systems for all public rooms, discotheque for night clubs, and a separate multi-language interpretation system for conferences.

To illustrate the diversity of the organization's activities, it is interesting to note that when the best in high fidelity music reproduction for the home is required, TANNOY has become the natural choice of those to whom quality is of paramount importance. So famous has become the TANNOY Monitor Gold Dual Concentric loudspeakers that they are used as a standard throughout the world, and are to be found in broadcasting studios, recording studios, measurement laboratories, and wherever the highest possible standard of reproduction is essential.

The TANNOY story is a story of continuous endeavor applied by enthusiasts to the solution of specialized problems in the field of communications and acoustics. The name TANNOY has become synonymous in Great Britain with sound reproducing equipment, so much so that in the 1968 edition of Chambers English Dictionary it has been included, and reads as follows:— "TANNOY", proprietary name of a sound reproducing and amplification system." We are proud to be among the extremely few trademarks in the world to have been so acclaimed, and acknowledged as being almost a generic term. It is not intended that the TANNOY Group will ever become a vast industrial complex. It will always remain an organization where people matter.

TANNOY®

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